
SynShield® Type 1

Copper foil on one side with SynTherm® insulating material.

Attributes

SynShield® copper conductor is a flexible copper foil laminated with various insulating materials.

SynShield® is just perfect for winding. There are two production methods for SynShield®:

- The insulation is applied during a special process without adhesive. This process guarantees excellent soldering behaviour and a low total strength.
- The insulation is applied with the aid of an adhesive.

Formats:

- lateral overlap acc. to customer specifications
- types without adhesive: PET films
- types with adhesive (SynTape®):
 - PET films
 - aramid papers
 - PI films

Application

SynShield® is mainly used in transformers and can be applied as electromagnetic or electrostatic shielding between the primary and secondary winding. SynShield® is also used as a replacement for enamelled copper wires.

Standards

- Thermal class B, F, H (depending on insulation)
- UL-file-no. E301705 (only SynShield® with PET)

Delivery forms

100 and 200 m rolls with 76 mm core.

Other dimensions and lengths on request.

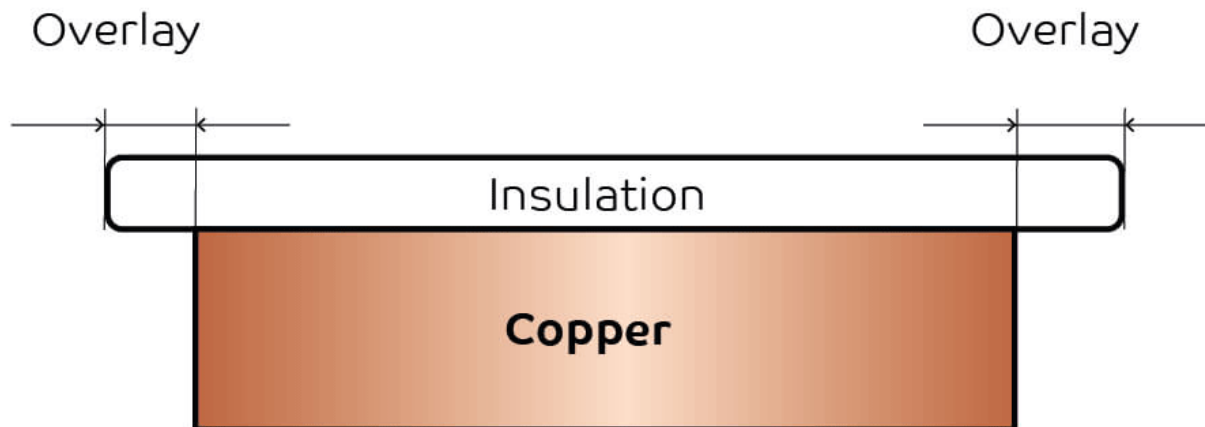
Conductor

Copper film of at least 99.90 % Cu and with a high or even high electrical conductivity.

Additional information

* Values are typical values of the individual unprocessed foil.

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Updated 07/19

SynShield® is a registered trademark of SynFlex.
SynTape® is a registered trademark of SynFlex.



| General | Unit of measure | Copper | PET | PET (adhesive) | Aramid paper (adhesive) | PI-film (adhesive) |
|-------------------|-----------------|-------------|-------|----------------|-------------------------|--------------------|
| Width | mm | 6-50 | 6-50 | 6-50 | 6-50 | 6-50 |
| Backing thickness | mm | 0.035-0.300 | 0.030 | 0.023 | 0.050 | 0.025 |
| Total thickness | mm | | | 0.060 | 0.100 | 0.060 |

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